

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF A TRAFFIC SIGNAL ON MD 28 (DARNESTOWN RD) AT OWENS GLEN WAY/MAIN STREET IN MONTGOMERY COUNTY. COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE TO BE INSTALLED ON THE WEST LEG OF THE INTERSECTION. MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A SIX PHASE SEMI-TRAFFIC-ACTUATED MODE WITH THE MD 28 APPROACHES RUNNING CONCURRENTLY AND THE OWENS GLEN WAY/MAIN STREET APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT TURN PHASING IS PROVIDED FOR BOTH LEGS OF MD 28.

AN ALTERNATE PEDESTRIAN PHASE WITH COUNTDOWN AND APS WILL BE PROVIDED ACROSS THE WEST LEG OF MD 28. AN ALTERNATE PEDESTRIAN PHASE WITH COUNTDOWN AND APS WILL BE PROVIDED TO CROSS THE SIDE ROADS.

CONTROLLER REQUIREMENTS

AN ASC/2S TRAFFIC SIGNAL CONTROLLER WITH VIDEO INTERFACE EQUIPMENT AND L.A.U. PANEL HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET SHALL BE UTILIZED.

PROJECT CONTACTS

CONTACTS FOR DISTRICT 3:

MR. JEFF WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. AUGIE REBISH
DISTRICT UTILITIES ENGINEER
PHONE: (301) 513-7350

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

CONTACTS FOR MONTGOMERY COUNTY:

MR. KAMAL HAMUD
MONTGOMERY COUNTY D.P.W. - ATMS
PHONE: (240) 777-8761

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

QUANTITY	QUANTITY	DESCRIPTION
9000	4.5 SF	SHEET ALUMINUM SIGNS
2 EA	R10-4 (1) 9"x12" PUSH BUTTON TO CROSS	"DARNESTOWN ROAD"
2 EA	R10-4 (1) 9"x12" PUSH BUTTON TO CROSS	"OWENS GLEN WAY"
2 EA	R10-4 (1) 9"x12" PUSH BUTTON TO CROSS	"MAIN STREET"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR.

QUANTITY DESCRIPTION

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	5 CY	TEST PIT EXCAVATION
8006	1 EA	2 WIRE CENTRAL CONTROL UNIT
8014	6 EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8015	5 EA	BREAKWAY PEDESTAL POLE (ANY SIZE)
8024	6 EA	FURNISH AND INSTALL LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8028	1 EA	REMOVE AND DISPOSE OF MATERIALS AND EQUIPMENT PER ASSIGNMENT
8037	32 SF	FURNISH AND INSTALL DETECTABLE WARNING SURFACES
8040	3.5 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8043	15 LF	6 AWG STRANDED BARE COPPER GROUND WIRE
8049	35 LF	3" PVC SCHEDULE 80 CONDUIT - TRENCHED
8062	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8070	1 EA	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8076	1070 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8078	920 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
NEG	6 EA	INSTALL R10-4(1)MOD PEDESTRIAN EDUCATION SIGN

WIRING KEY

A-F - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

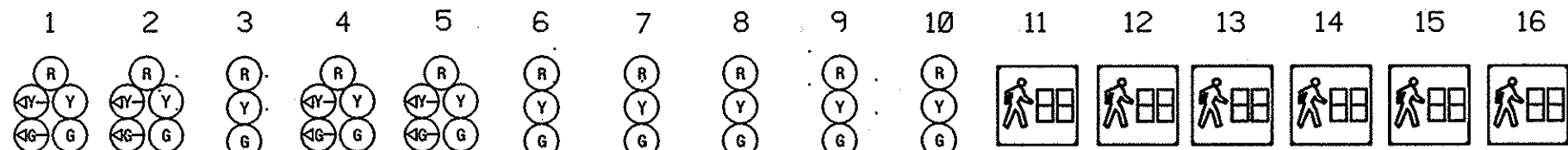
G-H, J-M - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

N - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

ES - EXISTING OVERHEAD SERVICE

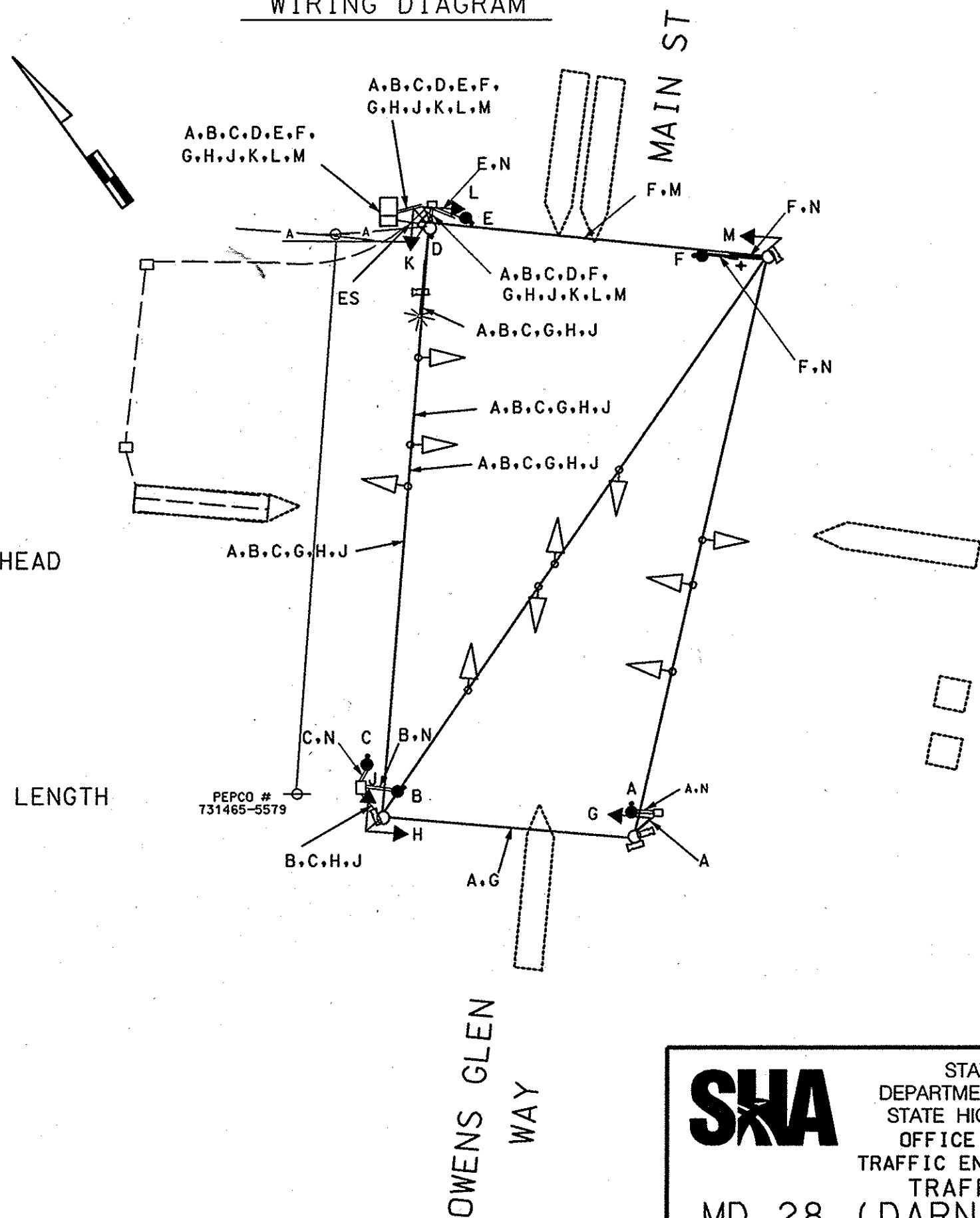
+ - 3/4" DIAMETER x 10' LONG SOLID COPPER GROUND ROD

EXISTING PHASING



Phase 1 + 5	R	G	R	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + 6															
Phase 1 + 6	G	G	G	R	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW
1 + 6 Change	G	G	G	R	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW
Phase 2 + 5	R	R	R	G	G	G	R	R	R	R	WK	WK	DW	DW	DW	DW
2 + 5 Change	R	R	R	G	G	G	R	R	R	R	WK	WK	DW	DW	DW	DW
Phase 2 + 6	G	G	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW
Ped Clearance	G	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 + 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
Phase 4 Alt + 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WK	WK
Ped Clearance	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 Alt + 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
Flashing	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK
Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204
REVISION "D" 25003.38

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
MD 28 (DARNESTOWN ROAD) AND
OWENS GLEN WAY/MAIN ST

SCALE N/A DATE 6/1/06 CONTRACT NO. AT7825185

DESIGNED BY ALD COUNTY MONTGOMERY
DRAWN BY ALD LOGMILE 15002816.46
CHECKED BY TH TIMS H557
F.A.P. NO. N/A TOD

DRAWING NO. 3594 D -61 2 OF 2 SHEET NO. 2 OF 2